

## **Fresno Irrigation District 2012 LGA Grant**

### **8 Attachment 8 – Quality Assurance**

This application includes appropriate and well-defined quality assurance and control measures. To ensure the highest quality of information is obtained, the project includes the quality assurances, including, but not limited to, the following:

#### **General**

- Periodic proposed meetings (at least every two months) will be conducted to verify project findings with District staff and the engineering consultant.
- Progress reports will be provided to DWR for review and comment regarding project status.
- The Final Project Report will be stamped by a Professional Engineer.
- All work will be performed under the supervision of, and reviewed accordingly by District staff and a Professional Engineer.

#### **Legal Issues**

- The District legal counsel will review and provide comments on the specifications, and environmental documents if needed.

#### **Technical Advisory Committee**

- The TAC of the Fresno Area Regional GWMP will meet at least twice during the course of this project. The TAC is comprised of landowners, local agency representatives, licensed engineers, geologists and experts. The findings of the project will be presented to the TAC for input, comment, and review of the information obtained.

#### **Board of Directors**

- The District Board of Directors, comprised of local landowners, will be updated on the project and be given the opportunity to provide comments, suggestions and criticisms.
- The public will be afforded the opportunity to comment on the project at Board meetings, which are open to the public.

#### **Environmental Issues**

- Required CEQA documentation will be prepared by an appropriate environmental professional or licensed engineer.
- All necessary permits will be secured for all work to ensure that work follows appropriate environmental and regulatory standards.

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### **Technical Review**

- All work performed on the study will be reviewed by senior staff before submission to DWR.
- Review comments on a Draft Report, and possibly some interim submittals, will be solicited, and incorporated when merited, from the DWR, TAC, District Board members, the public, and other pertinent agencies.

### **Project Team**

The principal staff for this project have the qualifications and skills to successfully complete the work. A brief description of the major project team members follows:

Laurence Kimura, P.E. C#51,617 & AG#482 Mr. Kimura is the District's Assistant General Manager. Mr. Kimura has more than 25 years experience in water resources, operations, design and construction. He will serve as project oversight administrator, in cooperation with the District's Chief Engineer. Mr. Kimura is a licensed Civil Engineer in the State of California.

Bill Stretch, P.E. C#62,849 Mr. Stretch is a licensed Civil Engineer in the State of California and is the District's Chief Engineer, having served as engineer or chief engineer for the District for 15 years. He is experienced with groundwater recharge facilities, flow meter, and basin modification design. He oversees all maintenance and modification to all District facilities, and he has served as lead designer and construction inspector for similar construction projects to this one.

Felix Vaquilar, P.E. C#62,874 Mr. Vaquilar is a licensed Civil Engineer who is experienced with District facilities and operations. He has been the point of contact for many improvement projects within the District on a day to day basis and is often in the field providing construction oversight.

The District has in the past used Provost & Pritchard Consulting group for consulting services related to environmental, design, review, and construction. If issues arise, the District will likely consult with this firm that has over 40 years in the business to provide a quality and working product.

Ronald J Samuelian, P.E. C#59,208 Works with Provost and Pritchard and has over 17 years of experience in water resources engineering. He is the former District Engineer for Fresno Irrigation District and has provided consulting services to numerous irrigation and water districts in California. Mr. Samuelian has also worked on numerous groundwater banking and DWR grant funded projects. He specializes in Geographic Information Systems, hydraulic analysis, irrigation engineering, and groundwater recharge. Mr. Samuelian is a licensed civil engineer and has a BS in Civil Engineering and Masters in Business Administration.

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### **Construction**

Fresno Irrigation District Construction Crews. District construction crews are familiar with, and have completed many similar construction projects. The use of District crews will provide a cost savings to the District, compared to contracting the work out, and will also provide for a similar level of quality as required by the District specifications. District crews are very experienced with formed concrete work, installation of pipe segments, construction of standpipes, and the installation of flow measurement equipment and staff gauges. Construction crews are overseen by registered engineers on a frequent basis to ensure improvements are in accordance with the plans and specifications of the project.

As with any construction job, safety is of the most importance and compliance with CalOSHA and OSHA is strictly adhered to. Any concrete pipe that is required to be installed will be ASTM C-361 or ASTM C-76 depending on site conditions. Any PVC pipe that is installed will be in compliance with American Water Works Association (AWWA). Compliance with ASTM and AWWA materials is industry standard for this type of work which ensures quality materials are used during construction.